

CLAIMS

What is claimed is:

1. A method for processing e-commerce transactions on an IBM iSeries or AS/400 computer system comprising:

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receiving an XML-formatted transaction at a central e-commerce website;

translating the XML-formatted transaction into an intermediate XML transport protocol;

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dispatching the transaction to an IBM server;

parsing the transaction at the IBM server to determine a transaction type;

15 retrieving a handler program and a customizable subroutine on the IBM server based upon the transaction type; and

executing the transaction on the IBM server using the handler program and customizable subroutine.

20 2. The method of claim 1, further comprising processing the transaction at the e-commerce website according to one or more business rules.

3. The method of claim 2, wherein results of processing are stored in a database on the e-commerce website.

4. The method of claim 1, further comprising creating a data structure compatible with the
5 IBM server.

5. The method of claim 4, further comprising loading contents of the transaction into the data structure.

10 6. The method of claim 5, further comprising passing the data structure to the customizable subroutine for execution.

7. The method of claim 6, further comprising executing one or more local or external applications using data in the data structure.

15 8. The method of claim 7, further comprising executing a COBOL or RPG program using data in the data structure.

9. The method of claim 7, further comprising storing results of execution in the data
20 structure.

10. The method of claim 9, further comprising translating the results of execution stored in the data structure into one or more XML responses.

11. The method of claim 10, further comprising dispatching the one or more XML responses to a transaction requester via the e-commerce website.

12. The method of claim 1, further comprising selecting the handler program and
5 customizable subroutine from a routing table.

13. A method for processing e-commerce transactions on an IBM iSeries or AS/400 computer system comprising:

10 providing an e-commerce website;

receiving XML transactions at the website;

converting the XML transactions into an intermediate protocol;

15 dispatching the XML transactions to an IBM server;

executing the XML transactions on the IBM server; and

20 transmitting results of processing to a requester via the e-commerce website.

14. The method of claim 13, further comprising translating the XML transactions into data structures compatible with the IBM server.

15. The method of claim 14, further comprising storing results of execution on the IBM server in the data structures.

16. The method of claim 15, further comprising translating results of execution stored in the data structures into XML responses.

17. The method of claim 16, further comprising transmitting the XML responses to a transaction requester via the e-commerce website.

18. The method of claim 13, further comprising executing one or more customizable subroutines to execute the XML transaction.

19. The method of claim 18, further comprising calling one or more local or external applications from the customizable subroutine.

20. The method of claim 19, further comprising calling one or more COBOL or RPG programs from the customizable subroutine.

21. A system for processing e-commerce transactions on an IBM iSeries or AS/400 computer system comprising:

an e-commerce website for receiving an XML transaction from a requester over the Internet, the e-commerce website including means for reformatting the XML transaction into an intermediate protocol format;

an IBM server in communication with the e-commerce website, the IBM server receiving the XML transaction from the e-commerce website;

means for executing the XML transaction on the IBM server; and

means for dispatching results of execution to a transaction requester.

22. The system of claim 21, wherein the means for executing the XML transaction comprises a server program for parsing the XML transaction to determine a transaction type.

23. The system of claim 22, wherein the means for executing the XML stores data in the XML transaction into a data structure compatible with the IBM server.

24. The system of claim 23, wherein the means for executing the XML transaction comprises means for routing the XML transaction to a handler program based upon the transaction type.

25. The system of claim 24, further comprising a customizable subroutine called by the handler program for executing the XML transaction using data stored in the data structure.

26. The system of claim 25, wherein the customizable subroutine calls one or more local or
5 remote applications.

27. The system of claim 26, wherein the one or more local or remote applications comprise COBOL or RPG applications.

10 28. The system of claim 26, wherein the customizable subroutine stores results of execution in the data structure.

29. The system of claim 28, further comprising means for translating results of execution stored in the data structure into an XML response.

15 30. The system of claim 29, wherein the XML response is dispatched by the means for dispatching execution results via the e-commerce website.

31. A method for processing an XML transaction on a proprietary computing system comprising:

receiving an XML transaction at a central website;

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transmitting the transaction to a proprietary computing system;

receiving the transaction at the proprietary computing system;

10 parsing the transaction on the proprietary computing system to determine a transaction type;

querying a router table using the transaction type;

15 retrieving a handler program from the router table based upon the transaction type;

executing the handler program;

calling a customizable subroutine from the handler program;

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creating a data structure based upon the transaction type and compatible with the proprietary computing system;

loading data from the transaction into the data structure for execution by one or more
local or remote applications;

executing the one or more local or remote applications from the customizable subroutine
5 using data in the data structure;

storing results of execution in the data structure;

creating an XML response that includes the results of execution extracted from the data
10 structure; and

passing the XML response to a transaction requester via the central website.

32. The method of claim 31, further comprising processing the XML transaction at the
15 central website according to one or more business rules.

33. The method of claim 31, further comprising translating the XML transaction at the
central website into an intermediate XML transport protocol prior to transmitting the transaction
to the proprietary computing system.

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34. The method of claim 31, wherein the step of executing the one or more local or remote
applications comprises executing a COBOL or RPG application.